

Title (en)  
INSTRUMENT WITH CONDUCTIVE HOUSING

Title (de)  
INSTRUMENT MIT LEITFÄHIGEM GEHÄUSE

Title (fr)  
INSTRUMENT DOTÉ D'UN BOÎTIER CONDUCTEUR

Publication  
**EP 3613099 A1 20200226 (EN)**

Application  
**EP 18722274 A 20180406**

Priority  
• US 201715494411 A 20170421  
• US 2018026376 W 20180406

Abstract (en)  
[origin: US2018309190A1] An instrument includes a housing that defines a handle for a user of the instrument, and a circuit disposed within the housing, the circuit being configured to implement wireless communications. The housing includes a conductive shaft. The circuit is electrically connected to the conductive shaft such that the conductive shaft is configured as an antenna element for the wireless communications or as a ground plane for the antenna element.

IPC 8 full level  
**H01Q 1/22** (2006.01); **G06F 3/0354** (2013.01); **H01Q 1/44** (2006.01); **H01Q 9/22** (2006.01)

CPC (source: EP US)  
**G06F 3/03545** (2013.01 - EP US); **H01Q 1/22** (2013.01 - EP US); **H01Q 1/243** (2013.01 - US); **H01Q 1/44** (2013.01 - EP US); **H01Q 1/48** (2013.01 - US); **H01Q 5/20** (2015.01 - US); **H01Q 9/22** (2013.01 - EP US)

Citation (search report)  
See references of WO 2018194866A1

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 10347970 B2 20190709**; **US 2018309190 A1 20181025**; CN 110582890 A 20191217; CN 110582890 B 20210226; EP 3613099 A1 20200226; EP 3613099 B1 20230607; WO 2018194866 A1 20181025

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